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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/044,432	01/11/2002	Jason Robert Almeida	RPS920010091US1	8540
45802 7	7590 03/24/2005		EXAMINER	
LALLY & LALLY, L.L.P. P. O. BOX 684749			CERVETTI, DAVID GARCIA	
AUSTIN, TX 78768-4749			ART UNIT	PAPER NUMBER
			2136	
			DATE MAILED: 03/24/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary		Application No.	Applicant(s)			
		10/044,432	ALMEIDA, JASON ROBERT			
		Examiner	Art Unit			
		David G. Cervetti	2136			
Period fo	The MAILING DATE of this communication ap or Reply	opears on the cover sheet with	the correspondence address			
THE - Exte after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPI MAILING DATE OF THIS COMMUNICATION nsions of time may be available under the provisions of 37 CFR 1 SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a re period for reply is specified above, the maximum statutory period are to reply within the set or extended period for reply will, by staturely received by the Office later than three months after the mailined patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a replyout a replyout thin the statutory minimum of thirty (3 d will apply and will expire SIX (6) MONTH the cause the application to become ABAN	y be timely filed 30) days will be considered timely. S from the mailing date of this communication. IDONED (35 U.S.C. § 133).			
Status						
1)⊠	☑ Responsive to communication(s) filed on 11 January 2002.					
2a) <u></u> □	This action is FINAL. 2b)⊠ This action is non-final.					
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims					
5)□ 6)⊠ 7)□	Claim(s) 1-24 is/are pending in the applicatio 4a) Of the above claim(s) is/are withdra Claim(s) is/are allowed. Claim(s) 1-24 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/	awn from consideration.				
Applicat	ion Papers					
9)⊠	The specification is objected to by the Examin	ner.				
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
	Applicant may not request that any objection to the	e drawing(s) be held in abeyance	e. See 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority (under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachmen	ut(s)	•				
_	ce of References Cited (PTO-892)	4) Interview Sur	nmary (PTO-413)			
2) Notice 3) Information	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/06 er No(s)/Mail Date	Paper No(s)/I	Mail Date rmal Patent Application (PTO-152)			
.S. Patent and T	rademark Office		_			

Application/Control Number: 10/044,432

Art Unit: 2136

DETAILED ACTION

Specification

The abstract of the disclosure is objected to because it exceeds 150 words in length. Correction is required. See MPEP § 608.01(b).

Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

The disclosure is objected to because it contains an embedded hyperlink and/or other form of browser-executable code (page 5, line 9). Applicant is required to delete the embedded hyperlink and/or other form of browser-executable code. See MPEP § 608.01.

The disclosure is objected to because of the following informalities: "SMP" (page 5, line 10). While well known in the art, these terms have not been defined.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-2, 4-5, 9-10, 12-13, 17-18, and 20-21 are rejected under 35 U.S.C. 102(b) as being anticipated by Bright et al. (US Patent Number: 6,141,756).

Regarding claim 1, Bright et al. teach a computer program product comprising processor executable instructions for programming a non-volatile storage element in a data processing system, the instructions being stored on a computer readable medium (column 1, lines 60-67, column 2, lines 1-26, column 5, lines 24-32), comprising: computer code means for encrypting a digital signature using a first encryption key (column 3, lines 40-57); computer code means for passing the encrypted signature to a kernel routine (column 3, lines 58-67, column 4, lines 1-13); computer code means, responsive to successfully decrypting the encrypted signature using a second encryption key, for transitioning the data processing system from a protected-mode to a real-mode (column 4, lines 14-32); and real-mode computer code means for flash programming the non-volatile storage element (column 5, lines 1-13).

Regarding claim 2, Bright et al. teach wherein the code means for encrypting the digital signature is non-privileged code.

Regarding claim 4, Bright et al. teach wherein the first encryption key is a private key and the second encryption key is a public key, wherein the public key and private key are generated from a common algorithm.

Regarding claim 5, Bright et al. teach further comprising code means for generating the digital signature, wherein the digital signature includes information that is indicative of the data processing system (column 3, lines 46-57).

Regarding claim 9, Bright et al. teach a data processing system including at least one processor, memory, and input means connected to a common bus, wherein the system memory contains at least a portion of a sequence of computer executable instructions for programming a non-volatile storage element of the data processing system (column 1, lines 60-67, column 2, lines 1-26, column 5, lines 24-32), the instructions comprising: computer code means for encrypting a digital signature using a first encryption key (column 3, lines 40-57); computer code means for passing the encrypted signature to a kernel routine (column 3, lines 58-67, column 4, lines 1-13); computer code means, responsive to successfully decrypting the encrypted signature using a second encryption key, for transitioning the data processing system from a protected-mode to a real-mode (column 4, lines 14-32); and real-mode computer code means for flash programming the non-volatile storage element (column 5, lines 1-13).

Regarding claim 10, Bright et al. teach wherein the code means for encrypting the digital signature is non-privileged code.

Application/Control Number: 10/044,432

Art Unit: 2136

Regarding claim 12, Bright et al. teach wherein the first encryption key is a private key and the second encryption key is a public key, wherein the public key and private key are generated from a common algorithm.

Regarding claim 13, Bright et al. teach further comprising code means for generating the digital signature, wherein the digital signature includes information that is indicative of the data processing system (column 3, lines 46-57).

Regarding claim 17, Bright et al. teach a method of programming a non-volatile storage element in a data processing system (column 1, lines 60-67, column 2, lines 1-26, column 5, lines 24-32), comprising: encrypting a digital signature using a first encryption key (column 3, lines 40-57); passing the encrypted signature to a kernel code routine (column 3, lines 58-67, column 4, lines 1-13); responsive to successfully decrypting the encrypted signature using a second encryption key, transitioning the data processing system from a protected-mode to a real-mode with the kernel code routine (column 4, lines 14-32); and flash programming the non-volatile storage element in real mode (column 5, lines 1-13).

Regarding claim 18, Bright et al. teach wherein encrypting the digital signature comprises encrypting the digital signature with non-privileged code.

Regarding claim 20, Bright et al. teach wherein the first encryption key is a private key and the second encryption key is a public key, wherein the public key and private key are generated from a common algorithm.

Application/Control Number: 10/044,432 Page 6

Art Unit: 2136

Regarding claim 21, Bright et al. teach further comprising generating the digital signature, wherein the digital signature includes information that is indicative of the data processing system (column 3, lines 46-57).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 3, 11, and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bright et al. as applied to claims 2, 10, and 18 respectively above, and further in view of Hughes (US Patent Number: 5,968,174).

Regarding claims 3 and 11, Bright et al. teach the limitations as set forth under claims 2 and 10 respectively above. Bright et al. do not disclose expressly wherein the code means for passing the encrypted signature to the kernel routine comprises code means for executing a system call from the non-privileged code and passing the signature as a parameter of the system call. However, Hughes teaches wherein the code means for passing the encrypted signature to the kernel routine comprises code means for executing a system call from the non-privileged code and passing the signature as a parameter of the system call (column 7, lines 28-32). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to execute a system call and pass a parameter to a system call. One of ordinary skill in the art would have been motivated to do so because it is well known in the art to execute a system call from the non-privileged mode and passing a value as a parameter to a system call.

Regarding claim 19, Bright et al. teach the limitations as set forth under claim 18 above. Bright et al. do not disclose expressly wherein passing the encrypted signature to the kernel routine comprises executing a system call from the non-privileged code and passing the signature as a parameter of the system call. However, Hughes teaches wherein passing the encrypted signature to the kernel routine comprises executing a system call from the non-privileged code and passing the signature as a parameter of the system call (column 7, lines 28-32). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to execute a system call and pass a parameter to a system call. One of ordinary skill in the art would have been motivated to do so because it is well known in the art to execute a system call. from the non-privileged mode and passing a value as a parameter to a system call.

Claims 6-7, 14-15, and 22-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bright et al. as applied to claims 5, 13, and 21 respectively above, and further in view of Cuccia et al. (US Patent Number: 6,151,676).

Regarding claims 6, 14, and 22, Bright et al. teach the limitations as set forth under claims 5, 13, and 21 respectively above. Bright et al. do not disclose expressly wherein the digital signature is generated based at least in part upon dynamic information. However, Cuccia et al. teach wherein the digital signature is generated based at least in part upon dynamic information (column 8, lines 13-20). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to generate a digital signature from dynamic information. One of ordinary skill

in the art would have been motivated to perform such a modification to provide a way to authenticate a user (Cuccia et al., column 2, lines 34-40).

Regarding claims 7, 15, and 23, the combination of Bright et al. and Cuccia et al. teaches the limitations as set forth under claims 6, 14, and 22 respectively above.

Furthermore, Bright et al. teach wherein the digital signature is generated at least in part based further upon information including a corresponding hostname and process ID (column 3, lines 50-52, a hash function).

Claims 8, 16, and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bright et al. as applied to claims 1, 9, and 17 respectively above, and further in view of Cuccia et al.

Regarding claims 8, 16, and 24, Bright et al. teach the limitations as set forth under claims 1, 9, and 17 respectively above. Bright et al. do not disclose expressly further comprising code means for generating a random number as the digital signature. However, Cuccia et al. teach further comprising code means for generating a random number as the digital signature (column 8, lines 13-20). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to generate a random number as the digital signature. One of ordinary skill in the art would have been motivated to perform such a modification to provide a way to authenticate a user (Cuccia et al., column 2, lines 34-40).

Application/Control Number: 10/044,432 Page 10

Art Unit: 2136

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David G. Cervetti whose telephone number is (571) 272-5861. The examiner can normally be reached on Monday-Friday 8:30 am - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz R. Sheikh can be reached on (571)272-3795. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DGC

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